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**Material
Safety
Data
Sheet**

Hi-Yield Wasp & Hornet Spray

SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Name: Voluntary Purchasing Groups, Inc.	Box 460, Bonham, TX 75418
Emergency Telephone: (903) 583-5501 or (800) 424-9300 (Chemtrec)	
For Additional Information Contact: Product Manager or Chemtrec	Date Prepared: 03-14-03
Common Name (Used on Label): Hi-Yield Wasp & Hornet Spray	Chemical Family: Mixture
Chemical Name: Mixture	Formula: Mixture
Trade Name & Synonyms: Hi-Yield Wasp & Hornet Spray EPA # 44446-54-7401	

HMS CODES: REACTIVITY: 1 FLAMMABILITY: 1 HEALTH: 2 PERSONAL PROTECT: A
NEPA CODES: REACTIVITY: 1 FLAMMABILITY: 1 HEALTH: 2

SECTION 2 – COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS COMPONENT	CAS NUMBER	% (TYPICAL)	TLV (UNITS)	PEL (UNITS)
Petroleum distillates	8030-30-6	84-94	300 PPM	400 PPM
Phosphorothioic acid, O,O-diethyl O-(2-isopropyl-6-methyl-4-pyrimidinyl) ester; or Diazinon	333-41-5	0.500	0.1 mg/m ³	0.1 mg/m ³
Pyrethrum	8003-34-7	0.025	5 mg/m ³	5 mg/m ³
Propane	74-98-6	2-4	Not established	1000 PPM
Isobutane	75-28-5	2-5	Not established	Not established
Toluene, alpha-(2(2-butoxyethoxy) ethoxy)-4,5-(methylenedioxy)-2-propyl-; or Piperonyl butoxide	51-03-6	0.262	Not established	Not established

PEL: Permissible Exposure Limit established by the Occupational Safety and Health Administration.

TLV: Threshold Limit Value recommended by the American Conference of Governmental Industrial Hygienists.

SECTION 3 – PHYSICAL DATA

BOILING POINT (°F) Not determined	SPECIFIC GRAVITY (H ₂ O=1) >1	VAPOR PRESSURE (mm Hg) Not determined
PERCENT VOLATILE BY VOLUME (%) >98%	VAPOR DENSITY (AIR=1) >1	EVAPORATION RATE (ethyl ether=1) Not determined
SOLUBILITY IN WATER Approx. 0.07 g/100g @ 25 degrees C	REACTIVITY IN WATER Will not evolve flammable or toxic gases	
APPEARANCE AND ODOR Water white aerosol spray; irritating odor at high concentrations		

SECTION 4 - FIRE AND EXPLOSION DATA

FLASH POINT (°F) Not determined- flammable aerosol	FLAMMABLE LIMITS IN AIR (% by volume) Lower: Not determined Upper: Not determined	
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EXTINGUISHING MEDIA Carbon dioxide, chemical foam, water fog	AUTO IGNITION TEMPERATURE Not determined
UNUSUAL FIRE AND EXPLOSION HAZARDS Vapors may accumulate in low lying or confined areas. Hazardous vapors may be formed from thermal deterioration and incomplete combustion.	
SPECIAL FIRE FIGHTING PROCEDURES Utilize self-contained breathing apparatus. Cool uninvolved containers to prevent possible rupture. Runoff from fire control or dilution water may give off poisonous gases and cause water pollution. Keep unnecessary people away; isolate hazard area and deny entry. Stay upwind, out of low areas, and ventilate closed spaces before entering. Remove and isolate contaminated clothing at the site.	

SECTION 5 - HEALTH INFORMATION

PRIMARY ROUTES OF EXPOSURE AND TARGET ORGANS Inhalations, skin absorption, ingestion, eye and skin contact. May affect the brain and the central nervous system, and the respiratory system.		
SIGNS AND SYMPTOMS OF EXPOSURE		
(1) ACUTE OVEREXPOSURE Inhalation may result in damage to the respiratory system. Symptoms may include respiratory tract irritation, headache, dizziness, uncoordination, drowsiness, and signs of acetylcholinesterase depression and unconsciousness. Skin contact may result in irritation, drying, or flaking. Material can be absorbed through the skin in harmful amounts. LD50 (piperonyl butoxide)=6,150 mg/kg (oral, rat); LD50 (piperonyl butoxide)=200 mg/kg (skin, rabbit).		
(2) CHRONIC OVEREXPOSURE May produce organophosphate type cholinesterase inhibition. Signs may include headache, dizziness, uncoordination, muscle twitching, tremors, nausea, abdominal cramps, diarrhea, sweating, pinpoint pupils, blurred vision, tearing, salivation, tightness in chest, urination and convulsions. May result in damage to liver, kidneys, and blood cells. Health studies have shown that many petroleum hydrocarbons and synthetic lubricants pose potential human health risks, which may vary, from person to person. As a precaution, exposure to liquids, vapors, and mists, should be minimized. may cause contact sensitization following repeated contact with the skin.		
MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE Disorders of the nervous system, liver, kidneys, blood cells, dermatitis, or other skin disorders.		
CHEMICAL/COMPONENT LISTED AS CARCINOGEN OR POTENTIAL CARCINOGEN None		
NTP <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	IARC <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	OSHA <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
OTHER EXPOSURE LIMITS None determined		
EMERGENCY AND FIRST AID PROCEDURES EYE CONTACT: Irrigate immediately with water for at least 15 minutes. Contact physician if irritation persists. SKIN CONTACT: Immediately flush skin with plenty of water for at least 15 minutes while removing contaminate dclothing and shoes. Call a physician if irritation persists. Wash clothing before reuse. Destroy contaminated shoes. Avoid prolonged or repeated contact with skin. Wash thoroughly after handling. If skin sensitization occurs, seek medical attention. IF SWALLOWED: Do not induce vomiting because of possible aspiration hazards. Drink 1 or 2 glasses of water. Call a physician, poison control center and/or transport to emergency facility immediately. INHALATION: Remove to fresh air if effects occur. Consult a physician.		

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SECTION 6 - REACTIVITY DATA

STABILITY <input type="checkbox"/> Unstable <input checked="" type="checkbox"/> Stable		CONDITIONS TO AVOID Excessive storage temperatures or high heat such as welding arcs or glowing surfaces that may tend to thermally deteriorate materials.
INCOMPATIBILITY (Materials to Avoid) Strong oxidizing agents, acids, and alkalis.		
HAZARDOUS DECOMPOSITION PRODUCTS Carbon monoxide, carbon dioxide and other unidentified organic vapor and mists.		
HAZARDOUS POLYMERIZATION <input type="checkbox"/> May Occur <input checked="" type="checkbox"/> Will Not occur		CONDITIONS TO AVOID Does not apply

SECTION 7 - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS LEAKED OR SPILLED Absorb with an inert material such as sand, sawdust. Sweep-up, place in a labeled container
WASTE DISPOSAL METHOD Dispose of in accordance with Federal, State, and local regulations

SECTION 8 - PERSONAL PROTECTION INFORMATION

RESPIRATORY PROTECTION NIOSH/MSHA approved respiratory protection suitable to provide protection against pesticides organic vapors.
VENTILATION General or local exhaust to maintain employee exposure below TLV/PEL.
PROTECTIVE GLOVES Utilize rubber or plastic gloves to prevent contact of substance with hands.
EYE PROTECTION Chemical splash goggles (ANSI Z87.1 1979)
OTHER PROTECTIVE CLOTHING OR EQUIPMENT Utilize apron, arm sleeves, boots, and other equipment, as necessary to prevent skin contact with the product.

SECTION 9 - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING & STORING Store in a dry, cool, well-ventilated place away from food, foodstuffs and seed.
OTHER PRECAUTIONS None

SECTION 10 - OTHER INFORMATION

The information contained within was obtained from authoritative sources and is believed to be accurate for the manner in which the product is intended to be used. Other uses could result in ramifications, which are not included within this document.